2SJ636



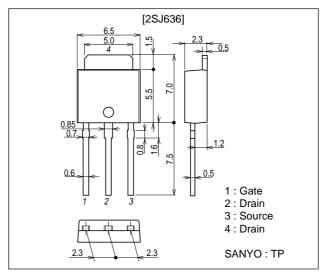
DC / DC Converter Applications

Features

- · Low ON-resistance.
- · Ultrahigh-speed switching.
- · 4V drive.

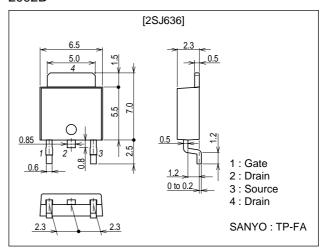
Package Dimensions

unit : mm 2083B



Package Dimensions

unit : mm 2092B



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- SANYO assumes no responsibility for equipment failures that result from using products at values that exceed, even momentarily, rated values (such as maximum ratings, operating condition ranges, or other parameters) listed in products specifications of any and all SANYO products described or contained herein.

Specifications

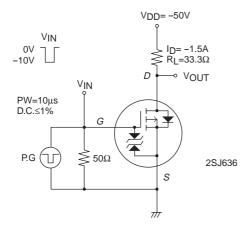
Absolute Maximum Ratings at Ta=25°C

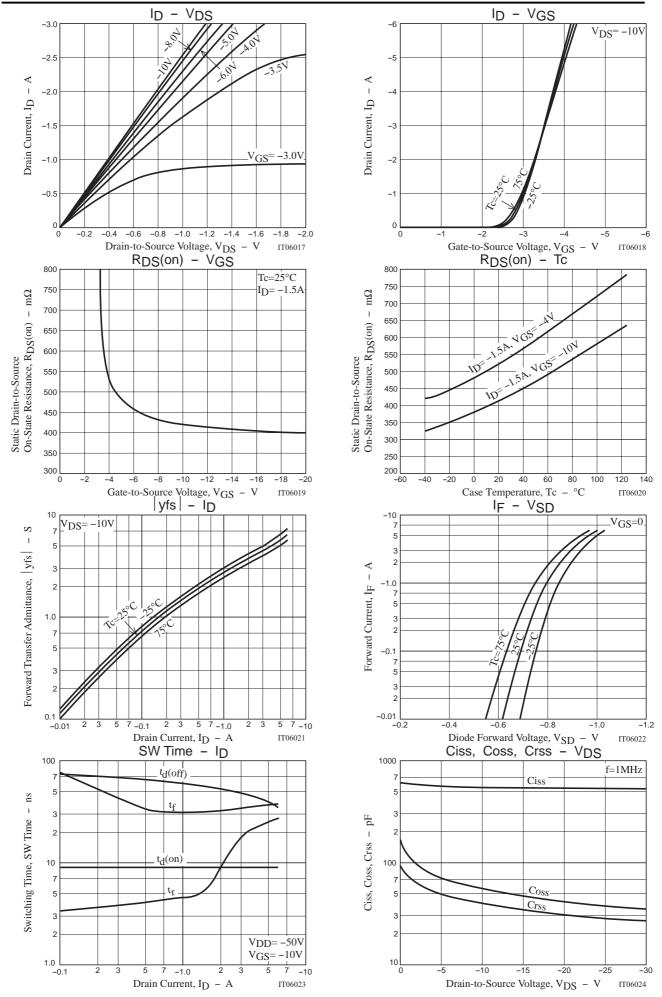
Parameter	Symbol	Conditions	Ratings	Unit
Drain-to-Source Voltage	VDSS		-100	V
Gate-to-Source Voltage	VGSS		±20	V
Drain Current (DC)	ID		-3	Α
Drain Current (Pulse)	IDP	PW≤10μs, duty cycle≤1%	-12	А
Allowable Power Dissipation	PD		1	W
		Tc=25°C	15	W
Channel Temperature	Tch		150	°C
Storage Temperature	Tstg		-55 to +150	°C

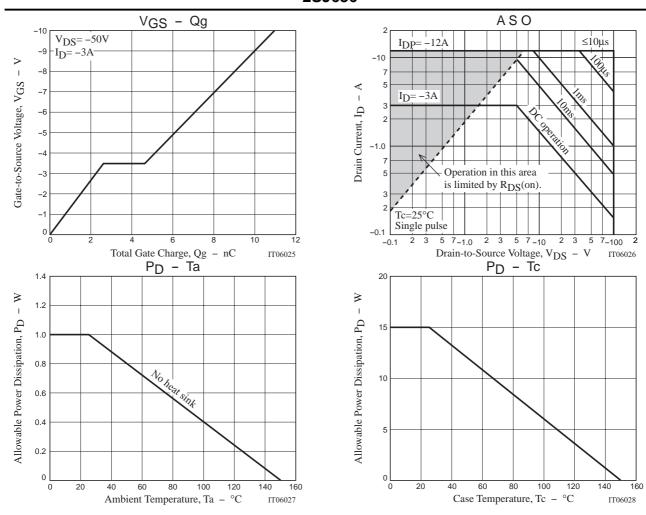
Electrical Characteristics at Ta=25°C

Parameter	Symbol	Conditions		Ratings		
			min	typ	max	Unit
Drain-to-Source Breakdown Voltage	V(BR)DSS	I _D =-1mA, V _G S=0	-100			V
Zero-Gate Voltage Drain Current	IDSS	V _{DS} =-100V, V _{GS} =0			-1	μΑ
Gate-to-Source Leakage Current	IGSS	V _{GS} =±16V, V _{DS} =0			±10	μΑ
Cutoff Voltage	VGS(off)	V _{DS} =-10V, I _D =-1mA	-1.2		-2.6	V
Forward Transfer Admittance	yfs	V _{DS} =-10V, I _D =-1.5A	1.5	3		S
Static Drain-to-Source On-State Resistance	R _{DS} (on)1	I _D =-1.5A, V _G S=-10V		415	535	mΩ
	R _{DS} (on)2	I _D =-1.5A, V _G S=-4V		535	735	mΩ
Input Capacitance	Ciss	V _{DS} =-20V, f=1MHz		535		pF
Output Capacitance	Coss	V _{DS} =-20V, f=1MHz		43		pF
Reverse Transfer Capacitance	Crss	V _{DS} =-20V, f=1MHz		31		pF
Turn-ON Delay Time	t _d (on)	See specified Test Circuit.		9		ns
Rise Time	t _r	See specified Test Circuit.		15		ns
Turn-OFF Delay Time	t _d (off)	See specified Test Circuit.		56		ns
Fall Time	tf	See specified Test Circuit.		35		ns
Total Gate Charge	Qg	V _{DS} =-50V, V _{GS} =-10V, I _D =-3A		11		nC
Gate-to-Source Charge	Qgs	V _{DS} =-50V, V _{GS} =-10V, I _D =-3A		2.6		nC
Gate-to-Drain "Miller" Charge	Qgd	V _{DS} =-50V, V _{GS} =-10V, I _D =-3A		2		nC
Diode Forward Voltage	V _{SD}	I _S =-3A, V _G S=0		-0.9	-1.2	V

Switching Time Test Circuit







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